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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/734,040	12/10/2003	Douglas R. Dole	26978 USA	9198
23307	7590	05/16/2005	EXAMINER	
SYNNESTVEDT & LECHNER, LLP 2600 ARAMARK TOWER 1101 MARKET STREET PHILADELPHIA, PA 191072950			DUNWOODY, AARON M	
			ART UNIT	PAPER NUMBER
			3679	

DATE MAILED: 05/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 10/734,040	Applicant(s) DOLE, DOUGLAS R.	
	Examiner Aaron M Dunwoody	Art Unit 3679	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 10 December 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>12/10/2003</u> . | 6) <input type="checkbox"/> Other: _____  |

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## DETAILED ACTION

### *Priority*

No priority claimed.

### *Information Disclosure Statement*

The information disclosure statement (IDS) filed 12/10/2003 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by US patent 4643464, Weinhold.

In regards to claim 1, Weinhold discloses a coupling assembly for flexibly joining pipes (10, 11) to one another end to end and permitting relative axial, torsional and angular deflection between the pipes, the coupling assembly comprising:

a first ring (14) attachable to an end of one of the pipes, the first ring having an outer diameter greater than the pipe and an outwardly facing circumferential groove therein;

a first sealing member (15) positionable within the groove of the first ring and extending circumferentially therearound;

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a second ring (14) attachable to an end of another of the pipes, the second ring having an outer diameter greater than the other pipe and an outwardly facing circumferential groove therein;

a second sealing member (15) positionable within the groove of the second ring and extending circumferentially therearound;

a band (23) positionable in overlying relation with and surrounding the first and second rings, the band having an inwardly facing surface sealingly engageable with the first and second sealing members and having a width sufficient to allow a gap between the pipes; and

a housing (24) positionable in overlying relation with and surrounding the rings and radially spaced apart from the band, the housing having a pair shoulders positioned in spaced apart relation, each the shoulder being engageable with one of the rings for limiting axial and angular deflection of one pipe relative to the other.

In regards to claim 2, Weinhold discloses one of the rings having an inner diameter sized to receive the pipe end in substantially coaxial engagement.

In regards to claim 3, Weinhold discloses the housing comprising a plurality of housing portions attachable to one another end to end to extend around the pipe ends.

In regards to claim 4, Weinhold discloses the housing comprising a pair of circumferential rims positioned in longitudinally spaced apart relation, each the rim extending radially inwardly and being in spaced relation to the pipes, the rims being engageable with the pipes upon angular deflection thereof for maintaining the spaced relation between the housing and the band.

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In regards to claim 5, Weinhold discloses the shoulders being positioned at a predetermined longitudinal distance from one another so as to engage the rings and thereby limit angular deflection between the pipes to a maximum of up to about 2°.

In regards to claim 6, Weinhold discloses the shoulders being positioned at a predetermined longitudinal distance from one another so as to engage the rings and thereby limit angular deflection between the pipes to a maximum of up to about 4°.

In regards to claim 7, Weinhold discloses the rings being attached to the pipe ends by welding.

In regards to claim 8, Weinhold discloses the sealing members comprising O-rings.

In regards to claim 9, Weinhold discloses the band comprising a single piece.

In regards to claim 10, Weinhold discloses a coupling flexibly joining pipes to one another end to end and permitting axial, torsional and angular deflection between the pipes, the coupling comprising:

a first ring attached coaxially around an end of one of the pipes, the first ring having an outwardly facing circumferential groove therein;

a first sealing member positioned within the groove of the first ring and extending circumferentially therearound;

a second ring attached coaxially around an end of another of the pipes, the second ring having an outwardly facing circumferential groove therein;

a second sealing member positioned within the groove of the second ring and extending circumferentially therearound;

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a band positioned coaxially surrounding the first and second rings, the band having an inwardly facing surface sealingly engaging the first and second sealing members and having a width sufficient to allow a gap between the pipes; and

a housing coaxially surrounding the rings and the band, the housing being radially spaced apart from the band and having a pair of circumferential rims positioned in longitudinally spaced apart relation, each the rim extending radially inwardly and being in spaced relation with the pipes, the rims being engageable with the pipes upon angular deflection thereof for maintaining substantially coaxial, radially spaced relation between the housing and the band, the housing having a pair of shoulders positioned in spaced apart relation facing one another, the rings being positioned between the shoulders, each the shoulder being engageable with one of the rings for limiting axial and angular deflection of one pipe relative to the other.

In regards to claim 11, Weinhold discloses the housing comprising a plurality of housing portions attached to one another end to end to extend around the pipes.

In regards to claim 12, Weinhold discloses fasteners attaching the housing portions to one another.

In regards to claim 13, Weinhold discloses the shoulders being positioned at a predetermined longitudinal distance from one another so as to engage the rings and thereby limit angular deflection between the pipes to a maximum of up to about 2°.

In regards to claim 14, Weinhold discloses the shoulders being positioned at a predetermined longitudinal distance from one another so as to engage the rings and thereby limit angular deflection between the pipes to a maximum of up to about 4°.

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In regards to claim 15, Weinhold discloses a method of sealingly and flexibly attaching pipes to one another end to end, the method comprising the steps of:

attaching a first ring to one pipe end, the first ring having an outwardly facing circumferential groove therein;

attaching a second ring to another pipe end, the second ring also having an outwardly facing circumferential groove therein;

inserting the first ring through a circumferentially extending band such that the band does not overlie the circumferential groove in the ring;

positioning a first sealing member within the groove of the first ring;

positioning a second sealing member within the groove of the second ring;

bringing the first and second rings adjacent to one another in co-axial alignment;

sliding the band circumferentially around the rings, the band having an inwardly facing surface sealingly engaging the first and second sealing members; and

positioning a housing circumferentially around and in spaced relation to the band and the rings, the housing having shoulders in spaced relation and facing one another, the shoulders being engageable with the rings to limit axial and angular deflection of the pipes relative to one another.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure because it illustrates the inventive concept of the invention.




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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron M Dunwoody whose telephone number is 571-272-7080. The examiner can normally be reached on 7:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P Stodola can be reached on 571-272-7087. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Aaron M Dunwoody  
Primary Examiner  
Art Unit 3679

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